First and Final Bill

M. A. R. 57 (Rule 116) No. E

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... 11014

Date of commencement of work: ~~dd/mm/yy~~ Date of Recording: 10/5/23

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work : Improvements to roads and drains in Various Cross roads of Kempapura and surrounding area in ward No.10 Kempapura.						
	Estimate Cost : Rs. 40.00 Lakhs						
	Job Code No : 010-23-000005						
	Name of Agency : Sri. M.S. Varadarajappa						
	Work order No : BBMP/EE/BTP/WO/145/2022-23 Dtd: 04/03/2023						
	Item No: 1 Earthwork excavation by manual means for drains, Canals, waste weir, draft, approach channels, Key trenches, foundation of bridges and such similar works in all kinds of soil as per drawing and technical specifications, including setting out,						

Earthwork 10/5/23

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Shoring, Strutting, barricading, Caution lights, removal of stumps and other deleterious matter, excavated surface levelled and sides neatly dressed disposing off the excavated stuff or storing & stacking the selected stuff for reuse in a radius of 50m and lift upto 1.5m including Cost of labour, tools & other appurtenances required to Complete the work. E Bill Page - 1					154.40 Cum @TR 175.04 = 27026.18/-	
	Item No:2 Providing and laying in position plain Cement Concrete for levelling Course for all works in foundation. The granite/trap/basalt Crushed graded Coarse aggregate and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150mm thickness, well Compacted using plate vibrators, including all leads & lifts. Cost of all materials of quality, labour, usage charges of machineries, curing, and all other appurtenances required to Complete the work as per technical Specifications. The Cost of steel reinforcement & form work shall be paid separately						

M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

11015

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	E-Bill Page - 2	3	4	5	6	7	8
	Mix 1:3:6 (M10) using 40mm nominal size graded Crushed Coarse aggregate					20.52 Cum @TR 5226.59 = 107249.63/-	
	Item No:3 Providing Size stone masonry with hard stone in foundation & plinth With Cement mortar 1:6 (1 Cement : 6 Coarse sand) E-Bill Page 3					5.67 Cum @TR 5102.37 = 28930.44/-	

Examined 16.1.23

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Item No:4 Providing ruled pointing to Coursed Stone masonry with lime mortar i.s. 2cmm deep after raking joints to depth of 2cmm nicely lining, including cost of all materials, labour, usage charges of machinery, Curing Complete as per Spcifi- E- Bill Page 6

10.80 sqm

@TR 223.97 = 2418.88/-

Item No:5 Providing and laying in position reinforced Cement Concrete for all sub structures of building, irrigation works, sub structure works of bridges, drain works & other parallel works from 0.5cm to 3.5cm height. The granite/ trap/ basalt Crushed graded Coarse aggregates and fine aggregates as per relevant I.S Codes, machine mixed with super plasticisers laid in layers, well Compacted using needle Vibrators, providing weep holes wherever necessary, including all leads & lifts. Cost of all materials of quality, Conforming to the requirements of relevant

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Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

11016

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

I.S Codes, labour, usage charges of machinery, curing and all other appurtenances required to Complete the work as per technical specifications. (The Cost of steel reinforcement & formwork to be paid seperately) (M30) Design mix using 20mm nominal size graded Crushed Coarse aggregates.

E- Bill Page - 5

44.10 Cum

@TR 5897.00 = 260057.70/-

Item No:6 Supplying, fitting and placing uncoated TMT bar reinforcement in sub-Structure Complete as per drawing and technical specifications.

E- Bill Page - 6

2.65 Tonne

@TR 86136.38 = 228361.91/-

Smitha 14/12/23

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No:7 Providing and laying in position plain Cement Concrete for levelling Course for all sorts in foundation. The granite/ trap/ basalt Crushed graded Coarse aggregate and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150mm thickness, well Compacted, using plate Vibrators, including all lead & lifts, cost of all materials of quality, labour, usage charges of machineries, Curing and all the other appurtenances required to Complete the work as per technical specifications (The cost of reinforcement & formwork shall be paid Separately) mix 1:3:6 (M10) using 20mm nominal size graded Crused Coarse aggregate.					2.70	Cum
	E-Bill Page-7					@TR 5390.33	= 14553.89/-

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Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work..... 11017

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No:8 Providing and fixing precast Covering slab made out of CC 1:2:4 with 10cm, thick and finishing cutting, including form work, curing, including Cost of all materials, labour hire charges of machinery, loading, unloading, lead and lift transportation etc (data rate)					105.00	Sqm
	E-Bill Page-8					@TR 1999.30	= 209926.50/-
	Item No:9 Providing and fixing precast Covering slab 25mm thick made out of CC 1:2:4 and jelly 25mm down size with steel reinforcement, including frame work Curing, including cost of all materials, labours, hire charges of machinery, loading, unloading, lead & lift transportation extra Complete as per Engineer-in-charge (data rate)						

10/5/23

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	E-Bill Page -9					9.00	Sqm
						@TR 4635.10 = 41715.90/-	
	Item No:10 Dismantling of Cement Concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m³ in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately.						
	E-Bill Page -10					243.00	cum
						@TR 397.12 = 96500.16/-	
	Item No:11 Construction of dry lean Cement Concrete Sub-base over a prepared Sub-grade with Coarse and fine aggregate Conforming to IS:383, the Size of Coarse aggregate not exceeding 25mm, aggregate Cement ratio not to exceed 15:1,						

M. A. R. 57 (Rule 116) No. E

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... 11018

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	aggregate gradation after blending to be as per table 600-1, Cement Content not to be less than 150 Kg/m³, optimum moisture Content to be determined during trial length Construction, Concrete strength not to be less than 10mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, Compacting with 8-10t Vibratory roller, finishing and Curing.						
	E-Bill Page -11					182.25	Cum
						@TR 3789.73 = 690813.79/-	

10/5/23

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No:12 Providing and Constructing un reinforced plain Cement Concrete Pavement, thickness as per design, over a prepared sub base, with 43 grade Cement or any other type as per clause 501.2.2. M30 grade, Coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregates not exceeding 25mm, mixed in a Concrete mixer of not less than 0.2 cum Capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing) spreading the Concrete with shovels, rakes Compacted using needle, screed and plate vibrators and finished in Continuous operation including Construction joints, joint sealant, primer, Curing of Concrete slabs for 14 days and water finishing to lines and grade as per drawing and technical						

M. A. R. 57 (Rule 116) No. E

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

11019

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Specification clause 1501 with all lead, lifts, loading & unloading charges, cost and Conveyance of all materials, labour, equipments etc Complete as per directions of Engineer-in-charge of work.					1233.35 cum	
	E-Bill Page-12.					@TR 6128.12 = 1116849.87/-	
	Item No:13 Loading and unloading of Stone boulder/Stone aggregates/Sand/Kankar/ Moorum					377.53 cum	
	E-Bill Page-13-					@TR 69.64 = 26291.19/-	

Sanction
10/5/23

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO:14 Cost of haulage Excluding loading and unloading taking output 18t load and lead 10Km = 180 t.Km.						
	E-Bill Page-14					483.23 cum	
					@TR	98.81	= 47747.96/-
					Sub-Total =		2899434.01/-
	Round off - S.T						2899000.00
	Add GST charges =						521898.08/-
							521820.00
	Grand Total =						3421332.13/-
	G.T =						3420820.00

Santhu 10/5/23

10/5/23

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... 11020

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate: * Certified that the work done satisfactorily. * Certified that there are no departmental issues * Certified that the debris removed from work spot. S. M. Nandish						

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd Cross						
	25.6m						
	6th Cross						
	23.8m						
			1st	main	Road		
				91.8m			

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

10/5/23

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

11021

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	W 19					W 4.75	INDEX C.C Road - R.C.C Drain -

Assistant Executive Engineer
Kodigehalli Sub Divisi...
BBMP, Bangalore

10/5/23

1st & final

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	P 3726				Total:	3420820/-	
	ಲೆಕ್ಕಶೀರ್ಷಿಕೆ Zonal Public Work - Pow Work ರಡಿ				I+	28990-00	
	ಜಲ್ಲಿ ಮೊಬಲಗು ರೂ. 3420820/- ಕೆಲಸನ್ನು ಪೂರ್ತಿ ಮಾಡಿದೆ				Cess+	28990-00	
	ಇಷ್ಟರಲ್ಲಿ ರೂ. 152020/- ಗಳಿಸಿದ್ದು ಮೊಬಲಗಿಗೆ				Sgst	28990-00	
	ಮುಂದಿರುವುದು ರೂ. 3268,800/- ಗಳನ್ನು				Cen	28990-00	
					CBF	2899-00	
					LR	33161-00	
					Ded	152020-00	
					Net Pay	3268800-00	

22/12/23

25/12/23